

**UNITED STATES
PATENT AND TRADEMARK OFFICE**





USPTO's Inventors Conference

INVENTION-CON

The Place for **Inventors**, **Makers**, & **Entrepreneurs**

Data Resources for Inventors

Scott Beliveau
August 12th, 2022

The grand data bargain

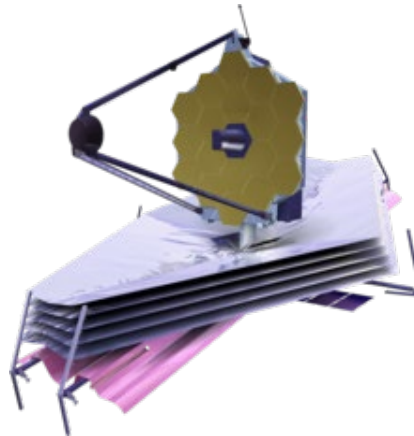


Hans Lippershey



Galileo Galilei

The USPTO open data program is here to help fuel innovation!



SPACE

The James Webb telescope reaches its final destination in space, a million miles away

January 24, 2022 - 8:06 PM ET

Freely available USPTO data resources

Developer Hub

<https://developer.uspto.gov/>

Where can I find USPTO open data and services?

Patent Examination Data

<https://ped.uspto.gov/peds/>

What happened in patent applications?

PatentsView

<https://www.patentsview.org/>

Where academics, researchers, and educators go for cool stuff.

Global Dossier

<https://globaldossier.uspto.gov/>

International file histories

Assignment Search

<https://assignments.uspto.gov/>

Who owns this patent/trademark?

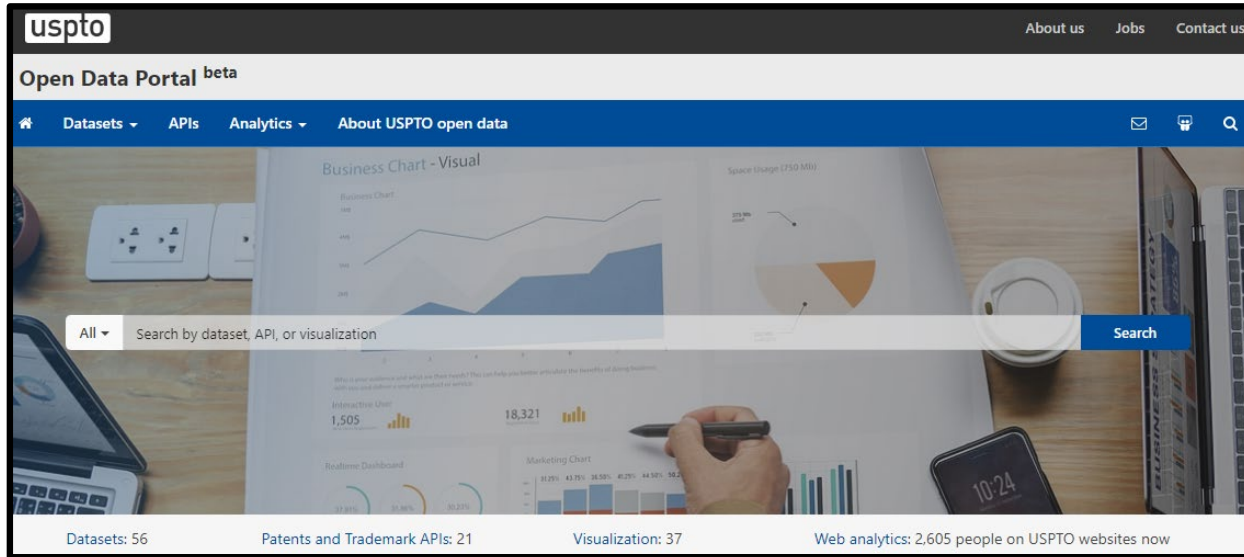
PTAB Bulk Data

<https://developer.uspto.gov/ptab-web/>

What happened in patent trials and appeals?

Developer Hub

<https://developer.uspto.gov/>



- 56 datasets
- 21 public APIs
- 37 Visualizations



Used by over 100 companies
180+ million transactions per year!

Developer Hub - Datasets

<https://data.uspto.gov/>

The screenshot shows the USPTO Open Data Portal beta interface. At the top, there's a navigation bar with 'uspto' logo, 'About us', 'Jobs', and 'Contact us'. Below that, the 'Open Data Portal beta' header includes 'Datasets', 'APIs', 'Analytics', and 'About USPTO open data'. The main heading is 'USPTO Datasets' with a sub-header: 'Protecting inventors and entrepreneurs fuels innovation and creativity, driving advances that can benefit society. As the federal agency that grants patents and registers trademarks, we hold a treasure trove of data. Now we're giving it to you - faster and easier than before.'

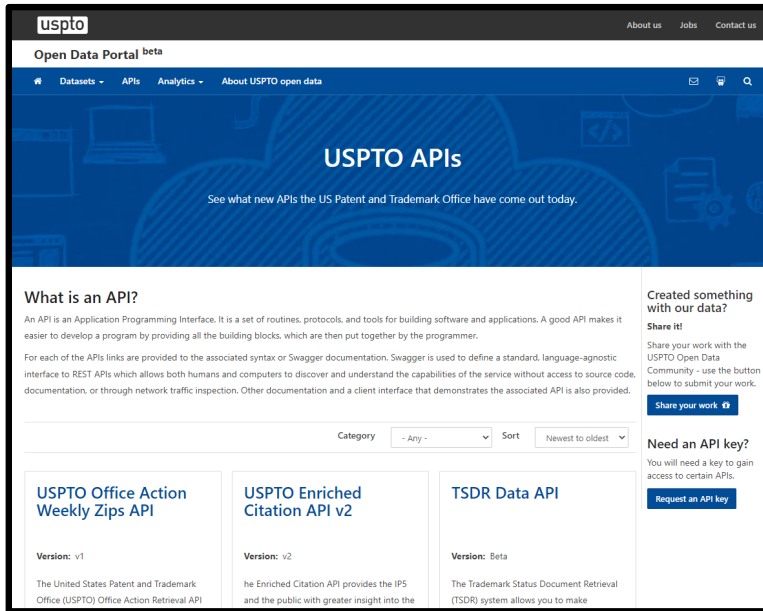
The search results section shows 51 results. The first result is 'Patent grant single-page TIFF images', updated on 2022-01-25, with a download button for 9.72 GB. The second result is 'Certificates of Correction', also updated on 2022-01-25, with a download button for 24.25 MB. A sidebar on the left allows refining results by 'PUBLISHED DATASETS' (Patent, Trademark), 'DATASET TYPE' (Authoritative, Research), and 'DATASET CATEGORIES' (Historical patent data files, Issued patents, Patent and patent application classification information, Patent assignment economics data).

- Download bulk data
- Office action (OA) archives
- Search and download published patent applications
- Patent Assignment data
- PTAB Bulk data
- IP Marketplace



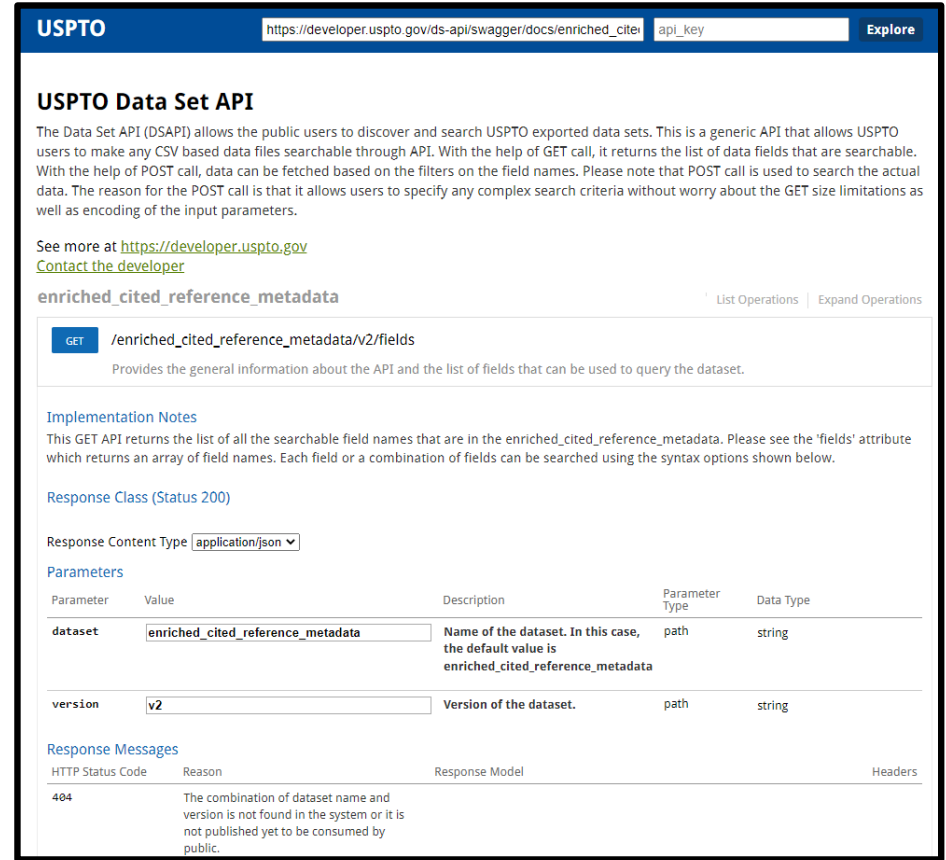
Developer Hub - APIs

<https://api.uspto.gov/>



The screenshot shows the USPTO Open Data Portal beta website. The header includes the USPTO logo and navigation links for 'About us', 'Jobs', and 'Contact us'. Below the header, there are tabs for 'Datasets', 'APIs', and 'Analytics'. The main content area features a large blue banner with the text 'USPTO APIs' and a sub-header 'See what new APIs the US Patent and Trademark Office have come out today.' Below this, there is a section titled 'What is an API?' with a brief explanation and a 'Share your work' button. To the right, there is a 'Created something with our data?' section with a 'Share it!' button. At the bottom, there are three API cards: 'USPTO Office Action Weekly Zips API' (Version: v1), 'USPTO Enriched Citation API v2' (Version: v2), and 'TSDR Data API' (Version: Beta). Each card includes a short description of the API's purpose.

API Catalog



The screenshot shows the USPTO Data Set API documentation page. The header includes the USPTO logo and a search bar with the URL 'https://developer.uspto.gov/ds-api/swagger/docs/enriched_cite' and an 'api_key' field. The main content area features a section titled 'USPTO Data Set API' with a brief description of the API's purpose. Below this, there is a 'See more at' section with links to 'https://developer.uspto.gov' and 'Contact the developer'. The main content area is titled 'enriched_cited_reference_metadata' and includes a 'List Operations' and 'Expand Operations' link. Below this, there is a 'GET' button and a URL '/enriched_cited_reference_metadata/v2/fields'. The description states: 'Provides the general information about the API and the list of fields that can be used to query the dataset.' Below this, there is an 'Implementation Notes' section with a description of the GET API's return value. The 'Response Class (Status 200)' section includes a 'Response Content Type' dropdown set to 'application/json'. The 'Parameters' section includes a table with columns for 'Parameter', 'Value', 'Description', 'Parameter Type', and 'Data Type'. The table contains two rows: one for 'dataset' with value 'enriched_cited_reference_metadata' and one for 'version' with value 'v2'. The 'Response Messages' section includes a table with columns for 'HTTP Status Code', 'Reason', 'Response Model', and 'Headers'. The table contains one row for status code '404' with a reason: 'The combination of dataset name and version is not found in the system or it is not published yet to be consumed by public.'

API Documentation

Developer Hub - Analytics

<https://developer.uspto.gov/>

The screenshot shows the 'Open Data Portal beta' interface. The main heading is 'Visualizing our data' with a sub-heading 'Enriched Citations'. A network graph visualization is displayed. Below the graph, there is a 'View Story' button. The page also features a section titled 'Explore. Discover. Create.' with a paragraph of text and a 'Share your work' button. At the bottom, there are three smaller visualizations: a network graph, a bar chart, and a table of data.

Data story telling

The screenshot shows the 'Open Data Portal beta' interface. The main heading is 'Open Analytics' with a sub-heading 'Open source tools and tutorials that help you learn how to create your own analysis of patent data.' Below this, there is a section titled 'What is Open Analytics?' with a paragraph of text and a link to a GitHub repository. At the bottom, there are three columns of content: 'Guidelines for Preparing Patent Landscape Reports' by Anthony Trippe, 'WIPO Open Source Patent Analytics' by Paul Oldham, and 'Patent Infographics with R' by Paul Oldham.

Tutorials

Developer Hub - Analytics

<https://developer.uspto.gov/inventor-search/>

No need to go through a lengthy patent search training program.

Inventor Search Assistant tool integrates multiple data sources (e.g., NPL and foreign patents), and provides other useful information (e.g., CPC and figures).

Inventor Search Assistant tool has an easy to use reporting/sharing capability.

The screenshot displays the USPTO Inventor Search Assistant interface. The search term 'dog raincoat' is entered in the search bar. Below the search bar, there are filters for 'Relevant Documents', 'Relevant Figures', and 'CPC'. A table of search results is shown, with the first result selected:

Select	Document	Patent ID	Title
<input checked="" type="checkbox"/>	Show	US20180055008	RAINCOAT FOR DOGS
<input type="checkbox"/>	Show	US20030029389	Disposable raingear for dogs
<input type="checkbox"/>	Show	US20060212987	One kind of raincoat preventing water dripping by shrinking itself
<input type="checkbox"/>	Show	US20090070913	Cloak-type raincoat

The detailed view of patent US20180055008 is shown on the right. It includes the title 'RAINCOAT FOR DOGS', the inventor 'Yun Hoon Yun, Los Angeles, CA (US)', and the publication date 'Mar. 1, 2018'. The abstract describes a raincoat for dogs with a body portion and a rear edge. A technical drawing of a dog's head wearing a raincoat is shown below the abstract.

Patent Examination Data System (PEDs)

<https://ped.uspto.gov/peds>

uspto About Us Jobs Contact Us

Patent Examination Data System

Home FAQ User Manual API Documentation

Refine by Clear

Top Filters More Filters

Application Number >

Filing or 371(c) Date >

Application Type >

Examiner Name >

Group Art Unit >

Class / SubClass >

First Named Applicant >

Earliest Publication Number >

Patent Number >

Patent Examination Data System

Use Patent Examination Data System to search and download large sets of data

1. Using the fields on the left, narrow down the results to your desired dataset
2. Request the results as a download
3. The requested files will be packaged and you will receive a notification in the application when it is ready to download

[Send Feedback](#)

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Patent Examination Data System

Home FAQ User Manual API Documentation

Refine by Clear

Top Filters More Filters

Application Number >

Filing or 371(c) Date >

Application Type >

Examiner Name >

Group Art Unit >

Class / SubClass >

First Named Applicant >

Earliest Publication Number >

Patent Number >

Q 10000000

Download the entire dataset

Refined by: Patent Number: 10000000 ✕

1 Results match the selected criteria Expand All / Collapse All Request Download

Application/PCT #	Title of Invention	Status
~14643719	COHERENT LADAR USING INTRA-PIXEL QUADRATURE DETECTION	Patented Case

Application Data	Transaction History	Address & Attorney/Agent	Continuity Data	Assignments	CMS Data	Display References	Maintenance Fees
Published Documents							

APPLICATION DATA

Application Number:	14/643,719	Correspondence Address Customer Number:	18510
Filing or 371 (c) Date:	03-10-2015	Status:	Patented Case
Application Type:	Utility	Status Date:	05-30-2018
Examiner Name:	RATCLIFFE, LUKE D	Location:	ELECTRONIC
Group Art Unit:	3645	Location Date:	-
Confirmation Number:	4531	Earliest Publication No (PGPUB):	US 2016-0266243 A1
Attorney Docket Number:	14-6582 (RAYN01-46582)	Earliest Publication Date:	09-15-2016
Class / Subclass:	356/005010	Patent Number:	10000000
First Named Inventor:	Joseph Marron	Issue Date of Patent:	06-19-2018
	All inventors		
First Named Applicant:	Raytheon Company	AIA (First Inventor to File):	Yes
	All applicants		

IPD@USPTO.gov

Patents View

<https://patentsview.org>

The screenshot shows the PatentsView website homepage. At the top, the USPTO PatentsView logo is displayed with the tagline "Learn About Patents Around the World". Navigation links include "About", "Methods & Sources", "Community", "DATA VISUALIZATION", "EXPLORE PATENTS DATA", "DATASETS", "API", and "TOPICS". A large banner image features a colorful abstract painting of a person's head and shoulders, with the text "What's New with PatentsView - July 2022" overlaid. Below the banner is a "Patent Search" section with a search input field and a "SEARCH" button. Underneath the search bar, it says "View results by:" followed by radio buttons for "Patent", "Inventor", and "Assignee". The main content area is divided into several sections: "EXPLORE" with links to "Data in Action", "Four-Step Disambiguation Methodology", and "Bulk Download"; "ABOUT" with links to "About PatentsView", "Methods & Sources", "Glossary", "Release Notes", and "Data Sets"; and four featured cards: "Query Builder" (exploring patent datasets), "Gender & Innovation" (research reports on gender differences), "API Endpoints" (regularly updated API tools), and "Community Forum" (a moderated space for collaboration).

USPTO Symposium: Advancing research on inventor demographics



August 26th at 9:00 EST

<https://patentsview.org/events/august26-2022>

Global Dossier

<https://globaldossier.uspto.gov/>

The screenshot shows the homepage of the Global Dossier service. At the top, there are navigation links for 'Home', 'Patent Center', 'Common Citation Document', 'Citation list BETA', 'Service Availability', 'Help', and 'Email us'. Below this is a search bar with 'Office' set to 'US' and 'Type' set to 'Application'. The main heading is 'Global Dossier' with a globe icon. Below the heading are three columns of text:

- Global Dossier Initiative:** The Global Dossier Initiative is a set of business services being developed by the [IPS Offices](#) (USPTO, EPO, JPO, KIPO, and SIPO) aimed at modernizing the global patent system and delivering benefits to all stakeholders through a single portal/user interface. Global Dossier will provide a single, secure point of access for the management of dossier and examination information, enabling and encouraging streamlining of office procedures among different IP Offices. This will lead to improved efficiency and predictability of global patent family prosecution with increased cost savings provided to patent applicants. For more information, on the please visit the [Global Dossier Initiative](#) page.
- Global Dossier Public Access:** The first service being provided by the Global Dossier initiative is a secure, online access to the file histories of related applications from participating IP Offices, which currently include the IPS Offices. By using this service, users can see the patent family for a specific application, containing all related applications filed at participating IP Offices, along with the dossier, classification, and citation data for these applications. This service also provides Office Action Indicators to help users identify applications that contain office actions, a Collections View for saving documents and applications for review later on in the session, and the ability to download the documents in an application.
- Citation List BETA:** As part of the Global Dossier initiative, the USPTO is pleased to announce the beta release of the Citation List. The Citation List is part of the USPTO's ongoing efforts to provide a more comprehensive listing of relevant citations that are available in related applications that share a common priority claim. During the beta, the USPTO hopes to receive feedback from users on future enhancements and functionality to be included in subsequent releases of the Citation List. Users may submit their feedback to GlobalDossier@uspto.gov or through the [Ideascale website](#). View: [Citation List](#)

This screenshot shows the 'Citation List' for application 13565455. It displays a table of related patent applications across various IP Offices. The table columns include Office, Application #, Applicant, Title #, App. Date #, Priority #, Pub. #, Pub. Date, and Action #. The entries are categorized by office type: All IPS Offices, Non-IPS Offices, and USPTO.

Office	Application #	Applicant	Title #	App. Date #	Priority #	Pub. #	Pub. Date	Action #
IP	201212714	Applied Materials, Incorporated	A laser material removing method and a device	08/12/2009	US 12092044 US PCT/US0954877	EP 20220249 A	02/19/2012	
CN	20090133793	The Applied Materials	Laser material removing methods and apparatus	08/22/2009	US 12092044 US PCT/US0954877	CN 100213719 A CN 100213719 B	07/20/2011 12/11/2011	
KR	2012100676	Applied Materials, Inc.	LASER MATERIAL REMOVAL METHODS AND APPARATUS	08/22/2009	US 12092044	KR 2012098704 A	06/03/2011	
US	1204488	2. Dong, Sheng 2. Park, Yonhwa Y.S. 3. Park, Yong K. 4. Bergerette, Chris	LASER MATERIAL REMOVAL METHODS AND APPARATUS	08/22/2009	US 1204488 US 12092044	US 2010000001 A1 US 829490 A2	03/01/2010 08/04/2012	
US	PCT/US0954877	1. APPLIED MATERIALS, INC. 2. DONG, SHENG 3. PARK, YONHWHA Y.S. 4. BERGETTE, CHRIS	LASER MATERIAL REMOVAL METHODS AND APPARATUS	08/22/2009	US 12092044	WO 201007712 A2 WO 201007712 A3	03/11/2010 05/14/2010	
EP	08611071	Applied Materials, Inc.	LASER MATERIAL REMOVAL METHODS AND APPARATUS	08/22/2009	US 12092044 US PCT/US0954877	EP 220928 A2	04/09/2011	
CN	2012008603	Applied Materials, Inc.	Laser material removing methods and apparatus	08/22/2009	US 12092044	CN 100817611 A	01/28/2014	
JP	0812001	2. DONG, SHENG 2. Park, Yonhwa Y.S. 3. Park, Yong K. 4. Bergerette, Chris	LASER MATERIAL REMOVAL METHODS AND APPARATUS	08/22/2009	US 1204488 US 12092044 US 12092044	JP 201022985 A	04/01/2010	
US	12092044	2. Dong, Sheng 2. Park, Yonhwa Y.S. 3. Park, Yong K. 4. Bergerette, Chris	LASER MATERIAL REMOVAL METHODS AND APPARATUS	08/22/2009	US 12092044 US 12092044 US 12092044	US 2010000001 A1 US 809800 A2	12/22/2010 10/29/2011	

This screenshot shows the 'Classification Data' and 'Citation Data' sections of the Global Dossier interface. The 'Classification Data' section displays a table of IPC8 and CPC codes for the patent family. The 'Citation Data' section shows a table of cited patent documents and NPL (Non-Patent Literature) with columns for Publication/Patent Number, Relevant Section, Relevancy/Claims, Cited In, and Cited By.

IPC8	IPC8	IPC8
A61B18/18 A61B19/00	A61B18/12	A61B18/00

CPC	CPC	CPC
A61B2018/147 A61B18/1815 A61B2018/162 A61B2018/00434	A61B2018/1861 A61B2018/00541 A61B2018/00017 A61B18/1492	A61B2018/0022 A61B2018/00023 A61B2090/0481

PATENT DOCUMENTS	NPL (NON-PATENT LITERATURE)
US20070027445/A1	
US20080243112/A1	paragraph 0011; paragraph 0035; paragraph 0052; paragraph 0072; paragraph 0073; paragraph 0089
US20080161890/A1	figures 1-2; paragraph 0034; paragraph 0040; paragraph 0043
US20030060813/A1	figure 9; paragraph 0010; paragraph 0039; paragraph 0049; paragraph 0053; paragraph 0057; paragraph 0061; paragraph 0093; paragraph 0096; paragraph 0105; paragraph 0106

GlobalDossier@USPTO.gov

Assignment Search

<https://assignment.uspto.gov/>

uspto Patent Assignment Search

Quick Lookup Search Advanced Search

Look up by Patent number e.g., 12345678 or 12,345,678 Enter name or number 10000000

Assignment abstract of title for Application 14643719

Invention title/inventor	Patent	Publication	Application	PCT	International registration
COHERENT LADAR USING INTRA-PIXEL QUADRATURE DETECTION	10000000	20160256243	14643719		
Joseph Marron	Jun 19, 2018	Sep 15, 2016	Mar 10, 2015		

Assignments (1 total)

Real/frame	Execution date	Date recorded	Properties	Pages
035130/0327	Mar 6, 2015	Mar 10, 2015	1	4

PTAB Bulk Data

<https://developer.uspto.gov/ptab-web/>

uspto PTAB Decisions

Decisions Proceedings Documents Search decision text

Board Decisions

Decision Date: 07/08/2022 - 08/07/2022

463 results found

Proceeding #	Application #/Reexam Control #	Appellant/PO/Respondent	Board Decision	Decision Date	Proceeding Type	Decision Type	Tech Center
2021003886	16182881	Panasonic Automotive Systems Company of America, Division of Panasonic Corporation of North America	Affirmed	08-05-2022	Appeal	Decision	2400
2021004646	16011043	Kenneth Fine	Affirmed	08-05-2022	Appeal	Decision	1600
2021004817	15835891	Google LLC	Affirmed	08-05-2022	Appeal	Decision	2600
2021000278	16221149	Telefonaktiebolaget LM Ericsson (publ)	Denied	08-05-2022	Appeal	Rehearing Decision	2400
2021003061	15097205	Ascant Technologies Inc.	Reversed with New Ground of Rejection	08-05-2022	Appeal	Decision	3600
2021003342	15596825	SUNPOWER CORPORATION	Affirmed	08-05-2022	Appeal	Decision	1700
2021003985	15583189	Cerence Operating Company	Affirmed	08-05-2022	Appeal	Decision	2600
2021004559	16575533	Regents of the University of Minnesota	Reversed with New Ground of Rejection	08-05-2022	Appeal	Decision	2800
2021004338	16548764	Honda Motor Co., Ltd.	Affirmed	08-05-2022	Appeal	Decision	2600
2021002827	14816999	UNIVERSITY OF	Affirmed	08-05-2022	Appeal	Decision	2100

Demonstration





Too often we forget that genius. . . depends upon the data within its reach, that even Archimedes could not have devised Edison's inventions.

Ernest Dimnet, "The Art of Thinking" (1928)



Discussion

- How can the USPTO improve the scope and quality of data product/service offerings?
- How can the USPTO provide a better customer experience and public data service delivery?



